



# PR20120031 Dynamic Routing Upgrade of Data Centers Member Impacting Project Overview

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## Version Control

Version	Date	Author	Change Description
1.0	12/21/12	Tennille Tims	Project Initiated.
2.0	1/15/13	Tennille Tims	Updated Dates
3.0	2/1/12	Tennille Tims	Updated Dates
4.0	2/6/13	Tennille Tims	Updated with availability information
5.0	2/11/13	Tennille Tims	Updated Dates
6.0	3/5/13	Tennille Tims	Updated Impact Information

## Document Purpose

This document is used to provide communication regarding member impacting/facing projects to the CWG and membership.

The Project Manager will provide the MIPO, and will suggest an initial review period. The CWG Representative should review the MIPO and provide feedback and response during the comment period. If needed, the CWG Representative may also request MIPO review meeting. All MIPO updates will be redlined and both a clean and a redlined version will be posted in the project folder. The latest MIPO version will have accepted redline changes from the previous version, and any new changes redlined.

File names should follow the following pattern: MIPO\_<PR#\_NAME\_V#.R#> where V# is the version number associated with the touch point, and R# is the release within that touch point.

The CWG and/or project liaisons will be notified when MIPO versions are posted.

## Executive Summary

SPP has planned to convert the Maumelle Data Center from static routing to Dynamic routing (BGP) in an effort to make the Integrated Marketplace application function across geographically dispersed Data Centers. The Chenal Data Center will also be converted from the OSPF dynamic routing protocol to BGP routing protocol as BGP allows more control over route redistribution. As part of the routing change the Maumelle Data Center will be taken offline for a period of approximately 6-8 hours. This work will be accomplished in two phases. The Chenal Data Center routing update will occur first, followed by the Maumelle Data Center routing update.

## Business Impact

**Phase I:** During the Chenal Data Center change, members should only see a minimal interruption of service.

**Phase II:** During the Maumelle Data Center change, the following applications will not be available:

- Corporate Web
- SharePoint
- COS Portal
- Global Scape
- SENDS
- SDA File Parser

An anticipated outage of 14 – 38 hours will occur.

### User Impacted

**Phase I:** Members – No anticipated impact.

### Phase II:

On February 23, 2013 SPP will be performing maintenance to the Maumelle Data Center Network in preparation for the Integrated Marketplace. Some applications will be re-routed to the Chenal Data Center. Some applications will be unavailable. **If for some reason we are unable to complete on 2/23/13, work will continue through 2/24/13 with the same application and service impacts for the duration of the outage.** Details are provided below.

Market Participants – The customer service portion of the portal will not be available. Entry of Load and Capability data will only be available up to 07:00 am. Reserve Obligations will be pulled from the 07:00 am information entered. The OPS1 web page will have a re-direct for users to access their reports at the Chenal Data Center.

On Friday, February 22, 2013, SPP will disable EIS ITE applications in preparation for the scheduled change on Saturday, February 23 and will enable them by 8:00 a.m. CST on Monday, February 25.

All customers should point to [FTP2.spp.org](http://FTP2.spp.org) for Hourly load, load forecast and CPS to drop their files. This is for the DSA file parser as well as to get NSI data from us. The files that they are sending to us for above (Hourly load, load forecast and CPS) will not be processed but if they have any automated processes they just need to point to [FTP2.spp.org](http://FTP2.spp.org). When the applications are back up then those files will get processed through our applications.

- To ensure members' RSS events are not interrupted during this outage or future maintenance, IP addresses *must* exist as DNS servers on members' PCs which connect to SPPnet. **\*\*Please verify or add both IPs to your DNS hunt group (both your primary and backup site): Please CALL your Customer Relations representative for the IP address.**

Note - SPP has already worked with members who were identified during the switchover work that occurred on 2/9 to complete this process. So those members should be set.

- To ensure members receive Schedule events from SPP's SENDS via SPPNet or Internet, IP addresses for SPPNet and for the Internet must be added to each member's firewall. **Please CALL your Customer Relations representative for the IP address.**

**\*\*\*As a temporary solution SPP will have steps in place to ensure no interruption to SENDS function occur during the upcoming network outage tomorrow – Saturday, February 23, 2013.\*\*\*** However, going forward after the outage window, the above referenced IP addresses must be allowed in each member's firewall to receive notifications from both Primary and Secondary SPP locations during production maintenance events.

## Technical Impact

None at this time.

## Member Requirements

Verify or add IP addresses for RSS and SENDS.

## Testing

Internal testing in preparation for this maintenance is ongoing. There is not member testing required for this effort.

## Training

N/A for this effort.

## Implementation/Back-out Plan

This maintenance is scheduled to occur during the first of Jan. 2013 and first full week of Feb. 2013. A back-out plan is included in this process. Should it be necessary to back-out, members will be notified of the back-out and contingency plan.

## Summary of Timeline

Date	Responsible	Action
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	Party	
12/28/2012	Project Team	Provide MIPO/Work notification to members
01/04/2013	Members	Complete review, assessment, and provide feedback
01/7/2013	Project Team	Provide confirmation work notification for EMS
01/8/2013	Project Team	Go/no-go call communication
01/8/2013	Project Team	Routing upgrade started
01/8/2013	Project Team	
01/10/2013	Project Team	Routing upgrade continued
01/17/2013	Project Team	Conclusion of Chenal data center routing upgrade
02/8/2013	Project Team	Provide confirmation work notification
02/9/2013	Project Team	Go/no-go call communication
2/9/2013	Project Team	Complete Routing Update in Maumelle
02/9/2013	Project Team	Provide completion of work notification
2/22/2013	Project Team	Provide confirmation work notification
2/23/2013	Project Team	Go/no-go call communication
2/23 – 2/24	Project Team	Complete Routing Update in Maumelle
2/23 – 2/24	Project Team	Provide completion of work notification
2/27/2013	Project Team	Change Complete

## Assumptions

None at publication date.

## Risks

As with any system maintenance, there are inherent risks of missed or not adequately assessed impacts that may lead to unplanned system downtime. The goal in communicating this maintenance proactively is to lessen that risk. It is asked that our membership review this information for any missed impact and reply with that information at the earliest convenience.

## Additional Documentation

None at publication date.

## Communication Plan

A confirmation work notification for each phase with intent to proceed will be sent one day prior to the implementation date.

There will be a go/no-go call held the morning of the scheduled maintenance for each phase; this call will be attended only by essential SPP staff, and should a no-go be decided at any point, the original work notification will be resent with the intent to reschedule to the alternate date.

As part of the planned switchover exercise a future routine schedule will be set and communicated. A start of work notification will be sent immediately prior to the maintenance beginning.

A completion of work notification will be sent immediately following completion of all maintenance and restoration of full functionality. All project communication and information will be posted to the CWG Project Documentation folder. This MIPO will be updated upon change or with any new information, a redline version posted to the project documentation folder, and the CWG notified.

## Next Steps

None at this time.

Lessons Learned Survey to be sent	3/8/2013	CWG members to complete by 3/22/2013.

## FAQs

Frequently asked questions will be added to the document as identified or necessary.